UNITED STATES PATENT AND TRADEMARK OFFICE

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/016,192	12/12/2001	Uri Wilensky	045191.0001	4239

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EXAMINER
SILVER, DAVID

ART UNIT	PAPER NUMBER
2128	

DATE MAILED: 10/05/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

-- *The MAILING DATE of this communication appears on the cover sheet with the correspondence address* --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE <u>3</u> MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
  Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

1)☐ Responsive to communication(s) filed on _____.

2a)☐ This action is **FINAL**.   2b)☒ This action is non-final.

3)☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

4)☒ Claim(s) *1-14* is/are pending in the application.

    4a) Of the above claim(s) _____ is/are withdrawn from consideration.

5)☐ Claim(s) _____ is/are allowed.

6)☒ Claim(s) *1-14* is/are rejected.

7)☐ Claim(s) _____ is/are objected to.

8)☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

9)☒ The specification is objected to by the Examiner.

10)☒ The drawing(s) filed on <u>03 May 2002</u> is/are: a)☒ accepted or b)☐ objected to by the Examiner.

    Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).

    Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).

11)☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

12)☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

    a)☐ All b)☐ Some * c)☐ None of:

      1.☐ Certified copies of the priority documents have been received.

      2.☐ Certified copies of the priority documents have been received in Application No. _____.

      3.☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

    * See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

1) ☒ Notice of References Cited (PTO-892)

2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)

3) ☒ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
    Paper No(s)/Mail Date <u>5-20-5</u>.

4) ☐ Interview Summary (PTO-413)
    Paper No(s)/Mail Date. _____.

5) ☐ Notice of Informal Patent Application (PTO-152)

6) ☐ Other: _____.

DETAILED ACTION

1. Claims 1-14 are pending in instant Application.

Priority

2. The Examiner acknowledges Applicant's claim to priority benefit for provisional application

60/255,537 filed **12/12/2000**.

Examiner Notes

3. Claim 1: "the relationship" should be changed to "a relationship";

"the coordination" should be changed to "a the coordination".

Appropriate action is requested.

Specification

4. Applicant is reminded of the proper language and format for an abstract of the disclosure.

5. The abstract should be in narrative form and generally limited to a single paragraph on a separate sheet within the range of 50 to 150 words. It is important that the abstract not exceed 150 words in length since the space provided for the abstract on the computer tape used by the printer is limited. The form and legal phraseology often used in patent claims, such as "means" and "said," should be avoided. The abstract should describe the disclosure sufficiently to assist readers in deciding whether there is a need for consulting the full patent text for details.

6. The language should be clear and concise and **should not repeat information given in the title. It should avoid using phrases which can be implied, such as, "The disclosure concerns," "The disclosure defined by this invention," "The disclosure describes,"** etc.

7. The abstract of the disclosure is objected to because **language the language should not repeat the title.** Correction is required. See MPEP § 608.01(b).

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis

for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

1. Claims 1-14 are rejected under 35 U.S.C. 102(b) as being anticipated by Ulrich, US Patent 5,466,200.

2. As per claim 1, Ulrich discloses a modeling device for a simulation of complex dynamic systems, comprising:

> a plurality of remote agents, each remote agent comprising:

>> logic to receive input data **(Fig 1 item 14Fig 2A item 28 and 30; col 1 line 65 - col 2 line 2)**;

>> object control node information corresponding to the performance of the remote agent and the relationship of the remote agent to the simulation **(col.: 2 lines: 41-55; abstract lines 8-11)**;

>> control instructions to convert the input data into the control node information **(col.: 5 lines: 37-42)**; and

>> logic to transmit the object control node information and the control instructions to a server computing device **(col.: 7 lines: 35-52)**; and

> the server computing device, comprising:

>> an object-based parallel modeling language component that collects object control node information and control instructions corresponding to each of the remote agents of the plurality of remote agents and coordinates the interaction of the remote agents based upon the collected object control node information and control instructions **(col.: 8 lines: 53-55, Figure 8 and 9 item 104; Figure 11 object-based parallel modeling language component ... item 138/136)**; and

>> logic to transmit interactive simulation information based upon the coordination of the interaction of the remote agents to the plurality of remote agents **(col.: 10 lines: 65-66)**.

3. As per claim 2, Ulrich discloses a modeling device of claim 1, the server computing device further comprising:

> modeling tools **(col.: 4 lines: 9-11)**; analysis tools **(col.: 5 lines: 46-47 and 52-54; Figure 11)**; and display tools **(Figure 2A item 35, figure 10 item 20)**.

4. As per claim 3, Ulrich discloses a modeling device of claim 1, wherein

the interactive simulation information is transmitted to a particular remote agent only if the

simulation information of the particular remote agent is impacted by control node information

and control instructions of a second remote agent **(col.: 9 lines: 7-10)**.

5. As per claim 4, Ulrich discloses a modeling device of claim 1, wherein

the input information comprises: input data **(Figure 13 item 156)**; and control instructions

corresponding to the remote agent **(Figure 13 items 180 and 182)**.

6. As per claim 5, Ulrich discloses a modeling device of claim 1, the server further comprising:

a central control panel comprising **(Figure 8 item 104; figure 2A item 34)**:

a graphical display for viewing the simulation information **(col.: 10 lines: 2-4)**.

7. As per claim 6, Ulrich discloses a modeling device of claim 5, wherein

the graphical display also displays input information and status data for a selected remote agent

of the plurality of remote agents **(col.: 10 lines: 2-7 input information ... pre-prepared

persona, status data ... packaged software)**.

8. As per claim 7, Ulrich discloses a modeling device of claim 5, the central control panel further

comprising:

a plurality of user input devices for providing direct interaction with the object-based parallel

modeling language component by enabling a user to input information and control instructions,

both corresponding to a selected remote device **(Figure 12, Figure 2A item 27)**.

9. As per claim 8, Ulrich discloses a method of producing a coordinated and interactive simulation of a
dynamic system, comprising the steps of:
defining a set of remote agents, wherein each remote agent performs the steps of:
receiving input data **(Fig 1 item 14Fig 2A item 28 and 30; col 1 line 65 - col 2 line
2)**;
transmitting the input data and control instructions relating to a corresponding remote
agent of the set of remote agents to a server computing device **(col.: 7 lines: 35-52)**;
and collecting the input data and control instructions from each of the remote agents of
the plurality of remote agents at the server computing device **(col.: 8 lines: 53-55, Figure 8
and 9 item 104, Figure 11 step 56; col 9 lines 11-17)**;
coordinating the interaction of the remote agents at the server computing device based
upon the input data and the control instructions, each set of control instructions corresponding to

the set of control instructions of each remote agent of the plurality of remote agents **(col.: 9 lines: 11-17)**;

and transmitting interactive simulation information based upon the coordination of the interaction of the remote agents from the server computing device to the plurality of remote agents **(col.: 9 lines: 11-17)**.

10. As per claim 9, Ulrich discloses a simulation method of claim 8, the coordinating step comprising the steps of:

analyzing the input data corresponding to a particular remote agent based upon control instructions corresponding to the particular remote agent **(col.: 5 lines: 52-54)**;

modeling the interactive simulation information based upon an interaction between the analyzed input data from the remote agents **(col.: 5 lines: 35-37)**;

and displaying a simulation based upon the interactive simulation information **(col.: 5 lines: 35-37)**.

11. As per claim 10, Ulrich discloses a simulation method of claim 8, wherein

the interactive simulation information is transmitted to a particular remote agent only if the

simulation information for the particular remote agent is impacted by control node information

and control instructions of a second remote agent **(col.: 9 lines: 7-10)**.

12. As per claim 11, Ulrich discloses a simulation method of claim 8, further comprising the step of:

defining sets of control instructions **(col.: 5 lines: 37-42)**,

each set of control instructions corresponding to a remote agent of the plurality of

remote agents **(col.: 6 lines: 44-47)**;

and input to each particular remote agent the set of control instructions corresponding to the

particular remote agent **(col.: 6 lines: 44-47)**.

13. As per claim 12, Ulrich discloses a simulation method of claim 8, further comprising the step of:

displaying on a central control panel coupled to the server computing device a graphical display

of the interactive simulation information **(Figure 2A item 35, col 9 lines 1-5)**.

14. As per claim 13, Ulrich discloses a simulation method of claim 12, further comprising the step of:

displaying on the central control panel input information and status data for a selected remote

agent of the plurality of remote agents **(col.: 10 lines: 2-7 input information ... pre-**

prepared persona, status data ... packaged software).

15. As per claim 14, Ulrich discloses a simulation method of claim 12, further comprising the step of:

entering input information and control instructions, both corresponding to a selected remote

device, at the server computing device **(Figure 10; figure 2A item 30; Figure 7 Figure 8**

item 106/122/110/108).

Conclusion

16. Claims 1-14 are rejected.

17. Prior art found pertinent by not replied on is submitted in PTO-892.

Reference B discloses a distributed parallel simulation / modeling network and is

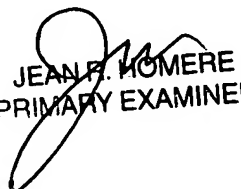therefore found pertinent to all claims.

Any inquiry concerning this communication or earlier communications from the examiner should

be directed to David Silver whose telephone number is (571) 272-8634. The examiner can normally be

reached on Monday thru Friday, 8am to 4:30pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jean

Homere can be reached on (571)272-3780. The fax phone number for the organization where this

application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application

Information Retrieval (PAIR) system. Status information for published applications may be obtained from

either Private PAIR or Public PAIR. Status information for unpublished applications is available through

Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should

you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at

866-217-9197 (toll-free).

David Silver
Examiner
Art Unit 2128

9/23/05

JEAN R. HOMERE
PRIMARY EXAMINER